



ULTRA-SHIELD SELF-STICK MEMBRANE

1. PRODUCT NAME

Ultra-Shield Self-Stick Membrane

2. MANUFACTURER

GMX, Inc.
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 Cleveland, OH 44105
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3. PRODUCT DESCRIPTION

Ultra-Shield Self-Stick Membrane is a pre-fabricated, self-adhering waterproofing sheet. It is composed of a durable, multi-layer polymer film which is coated with a proprietary rubberized asphalt adhesive. A release sheet protects the asphalt membrane and prevents the roll from sticking to itself while it is stored and handled. The release sheet is removed as the membrane is installed.

Ultra-Shield Self-Stick Membrane is specifically engineered for vertical and horizontal below grade waterproofing applications where the membrane is protected from long term ultraviolet exposure. It adheres aggressively to most clean, dry substrates including metal, wood, vinyl and masonry. Typical applications include waterproofing foundation walls, plaza decks, and balconies. It can also be used under siding, exterior plaster and as a through wall flashing.

Ultra-Shield Self-Stick Membrane is available in both 40 and 60 mil thicknesses. The 60 mil version is also available in a low temperature formulation. Additional product benefits include:

- Factory formulation which ensures uniform film thicknesses and dependable waterproofing protection
- A rubberized adhesive layer with self healing capability to accommodate the use of fasteners, staples and screws if required

- A rubberized adhesive layer with excellent elongation capability and tensile strength to accommodate the expansion and contraction of the substrate.

- Compatibility with most construction sealants and primers.

- Multiple layers of flexible, rubberized asphalt waterproofing protection which provide a belt and suspenders approach to leak control.

- Superior adhesion to poured concrete and concrete block which simplifies installation and eliminates water migration under the Ultra-Shield Self-Stick Membrane.

- It is compatible with a wide range of insulation, drainage and protection products. Your applicator can design the waterproofing solutions best suited to each project's specific application requirements and budgetary constraints.

4. STORAGE AND HANDLING CONSIDERATIONS

Store materials in a dry area and protect from direct sunlight. Ideally, the materials should be stored inside in a temperature controlled environment (interior temperatures between 60–80°F). Any materials exposed to the elements should be elevated above the ground and covered by a tarpaulin. Materials should not be exposed to excessive heat or direct flame.

7 MEMBRANE WATERPROOFING

TECHNICAL DATA - Ultra-Shield Self-Stick Membrane 60

PROPERTY	TEST METHOD	RESULT
Thickness	ASTM D 3767	60 mils min.
Tensile Strength	ASTM D 412	580 p.s.i.
Elongation	ASTM D 412	450% min.
Water Absorption	ASTM D 1228	0.21%
Pliability @ -35° F (-35°C)	ASTM D 1970	No effect
Vapor Permeance	ASTM E 96	0.008 max

60 Mil Standard 60 Mil LT

Application Temperature	> 50°F	25–55°F
Color	Black	Black
Roll Length	60 ft.	60 ft.
Roll Width	36"	36"
Carton Weight	70 lbs.	70 lbs.
Coverage	180 sq.ft.	180 sq.ft.

TECHNICAL DATA - Ultra-Shield Self-Stick Membrane 40

Thickness	ASTM D 3767	42 mils +/- 5 mils
Tensile Strength	ASTM D 412	580 p.s.i.
Elongation	ASTM D 412	450% min.
Water Absorption	ASTM D 1228	0.0021
Pliability @ -35° F (-35°C)	ASTM D 1970	No effect
Vapor Permeance	ASTM E 96	0.008 max
Application Temp.		Above 50°F
Color		Black
Roll Length		75 ft.
Roll Width		36"
Carton Weight		64 lbs.
Coverage		225 sq.ft.



Ultra-Shield Self-Stick Membrane should not be applied during inclement weather and the installation should not proceed in the event that precipitation is probable during the application. Consult your local GMX representative or the GMX Technical Department for application recommendations when application temperatures are less than 25°F. Store waterproofing materials at room temperature until immediately prior to use when the ambient temperature is less than 40°F.

4. INSTALLATION

The surface over which the membrane is to be applied should be clean, dry, reasonably smooth and free of dust, dirt, voids, cracks and sharp projections. The surface must be structurally sound. Shrinkage and stress cracks should be addressed separately with an additional ply of membrane prior to the application of the primary waterproofing systems. New concrete surfaces must cure a minimum of 7 days for normal structural concrete and 14 days for lightweight structural concrete. Remove forms as soon as possible from below horizontal slabs to prevent moisture entrapment. Cure concrete with clear, resin based curing compounds containing no oil, wax or pigment. On masonry surfaces, apply a parge coat to the concrete block.

Horizontal Surface Application: Prime the surface to be waterproofed with Ultra-Shield Quick Dry Primer applied at a rate of 1 gallon per 100 sq.ft. Apply the membrane from the low point to the high point so that the laps shed water. Remove the release paper from the underside of the sheet and roll the sheet directly onto the primed substrate in a manner that minimizes voids and wrinkles. Take care to ensure proper lap alignment. Side laps are 3 inches and head laps are 6 inches. Stagger all end laps. The adhesive is pressure activated. Seal membrane laps together as the sheet is applied taking care to apply pressure to both the sheet and lap. Roll the entire membrane firmly as soon as possible after application.

Use a linoleum roller or standard water filled garden roller to ensure proper adhesion. Apply sufficient pressure to ensure that there are no voids, wrinkles or fishmouths.

Flash all membrane penetrations according to the installation details outlined in the waterproofing section of the current edition of the National Roofing and Waterproofing Contractors Manual. Seal all T joints and membrane terminations with an appropriate mastic.

Vertical Surface Application: Prime the surface to be waterproofed with Ultra-Shield Quick Dry Primer applied at a rate of 1 gallon per 100 sq.ft. Apply the membrane in lengths up to 8 feet. On higher walls, apply the membrane in two or more sections. Overlap all seams a minimum three inches. Roll the membrane with a hand roller to ensure complete adhesion with no voids, wrinkles or fishmouths. Terminate the membrane at grade level. The top edge of the membrane should be secured with a termination bar or secured into a reglet. Seal all membrane laps with an appropriate asphalt based mastic. Flash all membrane penetrations according to the installation details outlined in the waterproofing section of the current edition of the National Roofing and Waterproofing Contractors Manual.

Protection, drainage or insulation board must be installed over Ultra-Shield Self-Stick membrane to protect the membrane from damage by the backfill, to assist in draining water away from the foundation and/or to insulate the foundation wall. On horizontal surface applications, install the wearing surface or backfill within 24 to 72 hours after completion of the waterproofing membrane. If surfaces are exposed to the sun or if the waterproofing is being performed in extremely hot weather, backfilling should be done within 24 hours after membrane installation.

5. AVAILABILITY AND COST

GMX materials are produced in and shipped from our plant in Cleveland, OH. For the name and number of the nearest GMX representative, call us at 866-228-7743. Our representatives can provide pricing and put you in contact with our nearest stocking distributor.

6. WARRANTY

GMX warrants its material for 10 years and its system applications for a period of up to 20 years provided our materials are applied in accordance with the published specifications in effect at the time of installation. For specific warranty terms and conditions, contact your local Ultra-Shield representative or the Cleveland office.

7. TECHNICAL SERVICES

Your local GMX representative is available to assist you in selecting the appropriate product and to provide on-site application assistance. For further information, please contact our Technical Service Dept. at 866-228-7743.



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